INDEX TO AUTHORS

A

Almquist, H. J. Further studies on the antihemorrhagic vitamin, 635

Alving, Alf S., and **Gordon, Wayne.** Studies of urea, creatinine, and ammonia excretion in dogs in acidosis, 103

Andrews, James C. See RUTENBER and ANDREWS, 203

Armstrong, W. D., and **Brekhus, P. J.** Chemical constitution of enamel and dentin. I. Principal components, 677

Arnow, L. Earle. The formation of dopa by the exposure of tyrosine solutions to ultraviolet radiation, 151

B

Barnard, Robert D. The reactions of nitrite with hemoglobin derivatives, 177

Behrens, Otto K., and **du Vigneaud, Vincent.** The synthesis of anserine from *l*-1-methylhistidine, 517

Bergman, A. J., and **Turner, C. W.** The composition of rabbit milk stimulated by the lactogenic hormone, 21

Block, Richard J. Chemical studies on the neuroproteins. II. The effect of age on the amino acid composition of human and mammalian brain proteins, 467

Blunden, Harry. See BUTTS, BLUNDEN, and DUNN, 289

Bodansky, Aaron. Notes on the determination of serum inorganic phosphate and serum phosphatase activity, 167

Bodansky, Oscar. The use of different measures of reaction velocity in the study of the kinetics of biochemical reactions, 555

Brekhus, P. J. See ARMSTRONG and BREKHUS, 677

Brodie, Bernard B., and **Friedman, Max M.** The determination of thiocyanate in tissues, 511

Browne, J. S. L. See VENNING, EVELYN, HARKNESS, and BROWNE, 225

Burk, Norval F. Osmotic pressure, molecular weight, and stability of amandin and excelsin and certain other proteins, 63

Butts, Joseph S., Blunden, Harry, and **Dunn, Max S.** Studies in amino acid metabolism. III. The fate of *dl*-leucine, *dl*-norleucine, and *dl*-isoleucine in the normal animal, 289

C

Campbell, Harold A., and **Link, Karl Paul.** Derivatives of *d*-galacturonic acid. III. The synthesis of a mercaptal of *d*-galacturonic acid and aldehydo tetraacetylmethyl-*d*-galacturonate, 471

Chaikoff, I. L. See KAPLAN and CHAIKOFF, 647

Christman, Clarence C. See LEVENE and CHRISTMAN, 575

Cori, Carl F., Cori, Gerty T., and **Hegnauer, Albert H.** Resynthesis of muscle glycogen from hexosemonophosphate, 193

Cori, Gerty T. See CORI, CORI, and HEGNAUER, 193

Corley, Ralph C. See LEIGHTY and CORLEY, 331

Craig, Lyman C. See JACOBS and CRAIG, 447

D

Deuel, Harry J., Jr., Murray, Sheila, Hallman, Lois F., and **Tyler, David B.** Studies on ketosis. XII. The effect of choline on the ketonuria of fasting rats following a high fat diet, 277

Dobriner, Konrad. Porphyrin excretion in the feces in normal and pathological conditions, 115

Dunn, Max S. See BUTTS, BLUNDEN, and DUNN, 289

E

Evans, E. A., Jr. See RITTENBERG, SCHOENHEIMER, and EVANS, 503

Evelyn, Kenneth A. See VENNING, EVELYN, HARKNESS, and BROWNE, 225

F

Fenn, W. O., and **Goettsch, Marianne.** Electrolytes in nutritional muscular dystrophy in rabbits, 41

Friedman, Max M. See BRODIE and FRIEDMAN, 511

G

Goettsch, Marianne. See FENN and GOETTSCH, 41

Gordon, Wayne. See ALVING and GORDON, 103

Gould, R. Gordon, Jr. See JACOBS and GOULD, 141

Graham, W. R., Jr., Houchin, O. B., and **Turner, C. W.** The production of urea in the mammary gland, 29

H

Hallman, Lois F. See DEUEL, MURRAY, HALLMAN, and TYLER, 277

Hamill, William H. See STEKOL and HAMILL, 531

Harger, R. N., Hulpieu, H. R., and **Lamb, E. B.** The speed with which various parts of the body reach equilibrium in the storage of ethyl alcohol, 689

Harkness, E. V. See VENNING, EVELYN, HARKNESS, and BROWNE, 225

Harrer, Carter J. See STOTZ, HARRER, SCHULTZE, and KING, 129

Harrison, Harold E. The sodium content of bone and other calcified material, 457

Hawkins, Nora C. See MORGAN, KIMMEL, and HAWKINS, 85

Hegnauer, Albert H. See CORI, CORI, and HEGNAUER, 193

Hess, W. C. See SULLIVAN and HESS, 537

Hoehn, Willard M. See MASON, HOEHN, MCKENZIE, and KENDALL, 719

Hoffman, William S. The photoelectric determination of potassium in minute quantities of serum, 57

—. A rapid photoelectric method for the determination of glucose in blood and urine, 51

Hogden, Corinne G. See ROBINSON, PRICE, and HOGDEN, 481

Hogness, T. R., Sidwell, A. E., Jr., and **Zscheile, F. P., Jr.** The absorption spectra of compounds related to the sterols, 239

Houchin, O. B. See GRAHAM, HOUCHIN, and TURNER, 29

Hulpieu, H. R. See HARGER, HULPIEU, and LAMB, 689

J

Jacobs, Walter A., and **Craig, Lyman C.** The veratrine alkaloids. II. Further study of the basic degradation products of cevine, 447

— and **Gould, R. Gordon, Jr.** The ergot alkaloids. XII. The synthesis of substances related to lysergic acid, 141

Johnston, Charles G. See SCHOENHEIMER and JOHNSTON, 499

Jones, Chase Breese, and **du Vigneaud, Vincent.** The synthesis of hexocystine and hexomethionine and a study of their physiological availability, 11

K

Kaplan, A., and **Chaikoff, I. L.** The effect of choline on the lipid metabolism of blood and liver in the completely depancreatized dog maintained with insulin, 647

Kendall, Edward C. See MASON, HOEHN, MCKENZIE, and KENDALL, 719

Kimmel, Louise. See MORGAN, KIMMEL, and HAWKINS, 85

King, C. G. See STOTZ, HARRER, SCHULTZE, and KING, 129

Kreider, Leonard C. See LEVENE and KREIDER, 591, 597

Kuna, Martin. See LEVENE, ROTHEN, and KUNA, 759, 777

L

Lamb, E. B. See HARGER, HULPIEU, and LAMB, 689

Lavietes, Paul H. Anaerobic ultrafiltration, 267

Leighty, John A., and **Corley, Ralph C.** Amino acid catabolism. IV. The fate of certain synthetic α-amino acids administered by subcutaneous injection to the normal dog, 331

Levene, P. A., and **Christman, Clarence C.** On a catalytically induced reaction resembling the Cannizzaro reaction, 575

— and **Kreider, Leonard C.** Oxidation and hydrolysis of polygalacturonide methyl ester to levo-tartaric acid, 591

— and —. The ring structure of α-methyl-*d*-galacturonide and its derivatives, 597

—, **Rothen, Alexandre,** and **Kuna, Martin.** The mechanism of the reaction of substitution and Walden inversion, 777

—, —, and —. Rotatory dispersion of configurationally related amines, 759

— and **Tipson, R. Stuart.** The structure of monoacetone *d*-xylulose, 607

Lichtman, A. L. Fatty acids and glucose in the blood of depancreatized dogs, 35

Link, Karl Paul. See CAMPBELL and LINK, 471

M

Mason, Harold L., Hoehn, Willard M., McKenzie, Bernard F., and **Kendall, Edward C.** Chemical studies of the suprarenal cortex. III. The structures of Compounds A, B, and H, 719

McKenzie, Bernard F. See MASON, HOEHN, MCKENZIE, and KENDALL, 719

Morgan, Agnes Fay, Kimmel, Louise, and **Hawkins, Nora C.** A comparison of the hypervitaminoses induced by irradiated ergosterol and fish liver oil concentrates, 85

Morgulis, Sergius. See SPENCER, MORGULIS, and WILDER, 257

Mueller, J. Howard. Nicotinic acid as a growth accessory for the diphtheria bacillus, 219

Murray, Sheila. See DEUEL, MURRAY, HALLMAN, and TYLER, 277

N

Neuwirth, Isaac. Sugar content of heparinized and oxalated plasmas, 463

Newton, Eleanor B. A chromogenic tungstate and its use in the determination of the uric acid of blood, 315

P

Pappenheimer, Alwin M., Jr. Diphtheria toxin. I. Isolation and characterization of a toxic protein from *Corynebacterium diphtheriæ* filtrates, 543

Price, J. Waide. See ROBINSON, PRICE, and HOGDEN, 481

R

Ravdin, I. S. See RIEGEL, RAVDIN, and ROSE, 523

Reiser, Raymond. The lipid analysis of human thoracic duct lymph, 625

Riegel, Cecilia, Ravdin, I. S., and **Rose, Henry J.** Effect of bile with and without cholesterol esters on esterification of cholesterol in blood plasma, 523

Rittenberg, D., Schoenheimer, Rudolf, and **Evans, E. A., Jr.** Deuterium as an indicator in the study of intermediary metabolism. X. The metabolism of butyric and caproic acids, 503

—. See SCHOENHEIMER and RITTENBERG, 155

Robinson, Howard W., Price, J. Waide, and **Hogden, Corinne G.** The estimation of albumin and globulin in blood serum. I. A study of the errors involved in the filtration procedure, 481

Rose, Henry J. See RIEGEL, RAVDIN, and ROSE, 523

Rothen, Alexandre. See LEVENE, ROTHEN, and KUNA, 759, 777

Rutenber, Charles B., and **Andrews, James C.** The applicability of the Benedict-Denis procedure to the determination of methionine sulfur, 203

S

Schmidt, E. G., Schmulovitz, M. J., Szczpinski, A., and **Wylie, H. Boyd.** The phenol and imidazole content of the blood, 705

Schmulovitz, M. J. See SCHMIDT, SCHMULOVITZ, SZCZPINSKI, and WYLIE, 705

Schoenheimer, Rudolf, and **Johnston, Charles G.** Lithocholic acid gallstones from hog bile, 499

Schoenheimer, Rudolf, and **Rittenberg, D.** Deuterium as an indicator in the study of intermediary metabolism. IX. The conversion of stearic acid into palmitic acid in the organism, 155

—. See RITTENBERG, SCHOENHEIMER, and EVANS, 503

Schroeder, E. F., and **Woodward, Gladys E.** The enzymatic hydrolysis of glutathione by rat kidney, 209

Schultze, M. O. See STOTZ, HARRER, SCHULTZE, and KING, 129

Sendroy, Julius, Jr. Microdetermination of chloride in biological fluids, with solid silver iodate. I. Gasometric analysis, 335

—. II. Titrimetric analysis, 405

—. III. Colorimetric analysis, 419

—. Note on errors in the analysis of chloride in albuminous urine, 441

Shinohara, Kamenosuke. The determination of thiol and disulfide compounds, with special reference to cysteine and cystine. VIII. Molecular ratio between A-phospho-18-tungstic acid and cysteine in their color reaction, 743

Sidwell, A. E., Jr. See HOGNESS, SIDWELL, and ZSCHEILE, 239

Spencer, Howard C., Morgulis, Sergius, and **Wilder, Violet M.** A micromethod for the determination of gelatin and a

study of the collagen content of muscles from normal and dystrophic rabbits, 257

Stekol, Jakob A., and **Hamill, William H.** On the non-labile deuterium of amino acids subjected to treatment in the medium of dilute deuterium oxide, 531

Stevens, Charles D. The source of the formic acid produced on acid hydrolysis of nucleic acids, 751

Stotz, Elmer, Harrer, Carter J., Schultze, M. O., and **King, C. G.** Tissue respiration studies on normal and scorbutic guinea pig liver and kidney, 129

Sullivan, M. X., and **Hess, W. C.** The effect of aldehydes on the quantitative determination of cysteine and cystine, 537

Szczpinski, A. See SCHMIDT, SCHMULOVITZ, SZCZPINSKI, and WYLIE, 705

T

Tipson, R. Stuart. A note on the acridine salts of "yeast" and "muscle" adenylic acids, 621

—. See LEVENE and TIPSON, 607

Toennies, Gerrit. Relations of thiourea, cysteine, and the corresponding disulfides, 297

Turner, C. W. See BERGMAN and TURNER, 21

—. See GRAHAM, HOUCHIN, and TURNER, 29

Tyler, David B. See DEUEL, MURRAY, HALLMAN, and TYLER, 277

V

Venning, Eleanor Hill, Evelyn, Kenneth A., Harkness, E. V., and **Browne, J. S. L.** The determination of estrin in urine with the photoelectric colorimeter, 225

du Vigneaud, Vincent. See BEHRENS and DU VIGNEAUD, 517

—. See JONES and DU VIGNEAUD, 11

W

Wilder, Violet M. See SPENCER, MORGULIS, and WILDER, 257

Woodward, Gladys E. See SCHROEDER and WOODWARD, 209

Wright, Norman. The infrared absorption spectra of the stereoisomers of cystine, 641

Wylie, H. Boyd. See SCHMIDT, SCHMULOVITZ, SZCZPINSKI, and WYLIE, 705

Y

Young, E. Gordon. On the separation and characterization of the proteins of egg white, 1

Young, Leslie. The effect of pyocyanine on the metabolism of cerebral cortex, 659

Z

Zscheile, F. P., Jr. See HOGNESS, SIDWELL, and ZSCHEILE, 239

INDEX TO SUBJECTS

A

Acidosis: Ammonia excretion (Alving and Gordon) 103
Creatinine excretion (Alving and Gordon) 103
Urea excretion (Alving and Gordon) 103

Acridine salts: Muscle adenylic acid (Tipson) 621
Yeast adenylic acid (Tipson) 621

Adenylic acid: Muscle, acridine salts (Tipson) 621
Yeast, acridine salts (Tipson) 621

Adrenal: Cortex compounds, structure (Mason, Hoehn, McKenzie, and Kendall) 719

Age: Brain protein amino acids, effect (Block) 467

Albumin: Blood serum, determination, filtration procedure, errors (Robinson, Price, and Hogden) 481

Aldehydes: Cysteine determination, effect (Sullivan and Hess) 537
Cystine determination, effect (Sullivan and Hess) 537

Aldehydo tetraacetylmethyl-*d*-galacturonate: Synthesis (Campbell and Link) 471

Alkaloids: Ergot (Jacobs and Gould) 141
Veratrine (Jacobs and Craig) 447

Amandin: Osmotic pressure, molecular weight, and stability (Burk) 63

Amines: Configurationally related, rotatory dispersion (Levene, Rothen, and Kuna) 759

Amino acid(s): α-, synthetic, subcutaneous injection, fate (Leighty and Corley) 331
Brain proteins, age effect (Block) 467
Catabolism (Leighty and Corley) 331
Deuterium oxide-treated, nonlabile deuterium (Stekol and Hamill) 531
Metabolism (Butts, Blunden, and Dunn) 289

Ammonia: Excretion, acidosis (Alving and Gordon) 103

Anserine: *l*-1-Methylhistidine synthesis (Behrens and du Vigneaud) 517

Antihemorrhage: Vitamin (Almquist) 635

Apparatus: Colorimeter, photoelectric, urine estrin determination (Venning, Evelyn, Harkness, and Browne) 225

B

Bile: Blood plasma cholesterol esterification, effect (Riegel, Ravdin, and Rose) 523
Hog, lithocholic acid gallstones (Schoenheimer and Johnston) 499
Biochemical reactions: Reaction velocity (Bodansky) 555
Blood: Lipid metabolism, depancreatized dog with insulin, choline effect (Kaplan and Chaikoff) 647
Bone: Sodium (Harrison) 457
Brain: Proteins, amino acids, age effect (Block) 467
Butyric acid: Metabolism, deuterium as indicator (Rittenberg, Schoenheimer, and Evans) 503

C

Calcified material: Sodium (Harrison) 457
Cannizzaro reaction: Catalytically induced reaction resembling (Levene and Christman) 575
Caproic acid: Metabolism, deuterium as indicator (Rittenberg, Schoenheimer, and Evans) 503
Catalytic reaction: (Levene and Christman) 575
Cerebrum: Cortex metabolism, pyocyanine effect (Young) 659
Cevine: Degradation products, basic (Jacobs and Craig) 447
Chloride: Biological fluids, colorimetric microdetermination, silver iodate (Sendroy) 419
——, gasometric microdetermination, silver iodate (Sendroy) 335
——, titrimetric microdetermination, silver iodate (Sendroy) 405
Urine, albuminous, analysis, errors (Sendroy) 441
Cholesterol: Blood plasma, esterification, bile effect (Riegel, Ravdin, and Rose) 523
Choline: Ketonuria, effect (Deuel, Murray, Hallman, and Tyler) 277
Lipid metabolism, blood and liver, depancreatized dog with insulin, effect (Kaplan and Chaikoff) 647
Collagen: Muscle, normal and dystrophic (Spencer, Morgulis, and Wilder) 257
Corynebacterium diphtheriæ: *See* Diphtheria bacillus
Creatinine: Excretion, acidosis (Alving and Gordon) 103
Cysteine: Determination (Shinohara) 743
—, aldehyde effect (Sullivan and Hess) 537
A-Phospho-18-tungstic acid and, color reaction, molecular ratio (Shinohara) 743
Thiourea and corresponding disulfides, relations (Toennies) 297

Cystine: Determination (SHINOHARA) 743
—, aldehyde effect (SULLIVAN and HESS) 537
Hexo-, physiological availability (JONES and DU VIGNEAUD) 11
—, synthesis (JONES and DU VIGNEAUD) 11
Stereoisomers, infra-red absorption spectra (WRIGHT) 641

D

Dentin: Constitution (ARMSTRONG and BREKHUS) 677
Deuterium: Butyric acid metabolism, deuterium as indicator (RITTENBERG, SCHOENHEIMER, and EVANS) 503
Caproic acid metabolism, deuterium as indicator (RITTENBERG, SCHOENHEIMER, and EVANS) 503
Metabolism, intermediary, indicator (SCHOENHEIMER and RITTENBERG) 155 (RITTENBERG, SCHOENHEIMER, and EVANS) 503
Non-labile, amino acids treated with deuterium oxide (STEKOL and HAMILL) 531
Stearic acid conversion to palmitic acid, indicator (SCHOENHEIMER and RITTENBERG) 155
Diphtheria bacillus: Nicotinic acid as growth accessory (MUELLER) 219
Toxic protein from filtrates (PAPPENHEIMER) 543
Disulfide compounds: Determination (SHINOHARA) 743
Disulfides: Cysteine, relation (TOENNIES) 297
Thiourea, relation (TOENNIES) 297
Dopa: Formation from tyrosine, ultraviolet radiation (ARNOW) 151

E

Egg: White proteins, separation and characterization (YOUNG) 1
Electrolytes: Muscle dystrophy (FENN and GOETTSCH) 41
Enamel: Constitution (ARMSTRONG and BREKHUS) 677
Enzyme(s): Kidney, glutathione hydrolysis (SCHROEDER and WOODWARD) 209
See also Phosphatase
Ergosterol: Irradiated, fish liver oil concentrates and, hypervitaminoses, comparison (MORGAN, KIMMEL, and HAWKINS) 85
Ergot: Alkaloids (JACOBS and GOULD) 141
Estrin: Urine, determination, photoelectric colorimeter (VENNING, EVELYN, HARKNESS, and BROWNE) 225
Ethyl alcohol: Body storage, equilibrium (HARGER, HULPIEU, and LAMB) 689
Excelsin: Osmotic pressure, molecular weight, and stability (BURK) 63

F

Fatty acids: Blood, depancreatized dogs (LICHTMAN) 35

Feces: Porphyrin excretion (DOBRINER) 115
Fish liver oil: Concentrates, irradiated ergosterol and, hypervitaminoses, comparison (MORGAN, KIMMEL, and HAWKINS) 85
Formic acid: Nucleic acid hydrolysis, source (STEVENS) 751

G

Galacturonate: Aldehydo tetra-acetylmethyl-*d*-, synthesis (CAMPBELL and LINK) 471
Galacturonic acid: *d*-, mercaptal, synthesis (CAMPBELL and LINK) 471
Galacturonide: α-Methyl-*d*-, and derivatives, ring structure (LEVENE and KREIDER) 597
Poly-, methyl ester, oxidation and hydrolysis to levo-tartaric acid (LEVENE and KREIDER) 591
Gallstones: Hog bile, lithocholic acid (SCHOENHEIMER and JOHNSTON) 499
Gelatin: Microdetermination (SPENCER, MORGULIS, and WILDER) 257
Globulin: Blood serum, determination, filtration procedure, errors (ROBINSON, PRICE, and HOGDEN) 481
Glucose: Blood, depancreatized dogs (LICHTMAN) 35
—, determination, photoelectric (HOFFMAN) 51
Urine, determination, photoelectric (HOFFMAN) 51
Glutathione: Kidney enzyme, hydrolysis (SCHROEDER and WOODWARD) 209
Glycogen: Muscle, resynthesis, hexosemonophosphate (CORI, CORI, and HEGNAUER) 193

H

Hemoglobin: Derivatives, nitrite reactions (BARNARD) 177
Hemorrhage: Anti-, vitamin (ALMQUIST) 635
Hexocystine: Physiological availability (JONES and DU VIGNEAUD) 11
Synthesis (JONES and DU VIGNEAUD) 11
Hexomethionine: Physiological availability (JONES and DU VIGNEAUD) 11
Synthesis (JONES and DU VIGNEAUD) 11
Hexosemonophosphate: Muscle glycogen resynthesis from (CORI, CORI, and HEGNAUER) 193
Histidine: *l*-1-Methyl-, anserine synthesis from (BEHRENS and DU VIGNEAUD) 517
Hypervitaminosis: Ergosterol, irradiated, fish liver oil concentrates and, comparison (MORGAN, KIMMEL, and HAWKINS) 85

I

Imidazoles: Blood (SCHMIDT, SCHMULOVITZ, SZCZPINSKI, and WYLIE) 705
Insulin: Lipid metabolism, blood

and liver, depancreatized dog, choline and, effect (KAPLAN and CHAIKOFF) 647

Isoleucine: *dl*-, fate (BUTTS, BLUNDEN, and DUNN) 289

K

Ketonuria: Choline effect (DEUEL, MURRAY, HALLMAN, and TYLER) 277

Ketosis: (DEUEL, MURRAY, HALLMAN, and TYLER) 277

Kidney: Enzyme, glutathione hydrolysis (SCHROEDER and WOODWARD) 209

Respiration, normal and scorbutic animals (STOTZ, HARRER, SCHULTZE, and KING) 129

L

Lactogenic hormone: Milk composition, effect (BERGMAN and TURNER) 21

Leucine: *dl*-, fate (BUTTS, BLUNDEN, and DUNN) 289

dl-Iso-, fate (BUTTS, BLUNDEN, and DUNN) 289

dl-Nor-, fate (BUTTS, BLUNDEN, and DUNN) 289

Lipid(s): Metabolism, blood and liver, depancreatized dog with insulin, choline effect (KAPLAN and CHAIKOFF) 647

Thoracic duct lymph (REISER) 625

Lithocholic acid: Gallstones, hog bile (SCHOENHEIMER and JOHNSTON) 499

Liver: Lipid metabolism, depancreatized dog with insulin, choline effect (KAPLAN and CHAIKOFF) 647

Respiration, normal and scorbutic animals (STOTZ, HARRER, SCHULTZE, and KING) 129

Lymph: Thoracic duct, lipids (REISER) 625

Lysergic acid: -Related substances, synthesis (JACOBS and GOULD) 141

M

Mammary gland: Urea production (GRAHAM, HOUCHIN, and TURNER) 29

Metabolism: Intermediary, deuterium as indicator (SCHOENHEIMER and RITTENBERG) 155

(RITTENBERG, SCHOENHEIMER, and EVANS) 503

Lipid, blood and liver, depancreatized dog with insulin, choline effect (KAPLAN and CHAIKOFF) 647

Methionine: Hexo-, physiological availability (JONES and DU VIGNEAUD) 11

—, synthesis (JONES and DU VIGNEAUD) 11

Sulfur determination, Benedict-Denis method (RUTENBER and ANDREWS) 203

Methyl-*d*-galacturonide: α-, and derivatives, ring structure (LEVENE and KREIDER) 597

Methylhistidine: *l*-1-, anserine synthesis from (BEHRENS and DU VIGNEAUD) 517

Milk: Lactogenic hormone stimulation, effect (BERGMAN and TURNER) 21
Monoacetone *d*-xylulose: Structure (LEVENE and TIPSON) 607
Muscle: Adenylic acid, acridine salts (TIPSON) 621
Collagen, normal and dystrophic (SPENCER, MORGULIS, and WILDER) 257
Dystrophy, electrolytes (FENN and GOETTSCH) 41
Glycogen, resynthesis, hexosemonophosphate (CORI, CORI, and HEGNAUER) 193

N

Neuroproteins: Chemistry (BLOCK) 461
Nicotinic acid: Diphtheria bacillus growth accessory (MUELLER) 219
Norleucine: *dl*-, fate (BUTTS, BLUNDEN, and DUNN) 289
Nucleic acids: Hydrolysis, acid, formic acid source (STEVENS) 751

O

Oil: *See also* Fish liver oil

P

Palmitic acid: Stearic acid conversion, deuterium as indicator (SCHOENHEIMER and RITTENBERG) 155
Pancreatectomy: Blood fatty acids, effect (LICHTMAN) 35
— glucose, effect (LICHTMAN) 35
Pancreatectomy—*continued*:
Lipid metabolism, blood and liver, choline and insulin effect (KAPLAN and CHAIKOFF) 647
Phenols: Blood (SCHMIDT, SCHMULOVITZ, SZCZPINSKI, and WYLIE) 705
Phosphatase: Blood serum, activity, determination (BODANSKY) 167
Phosphate: Inorganic, blood serum, determination (BODANSKY) 167
Polygalacturonide: Methyl ester, oxidation and hydrolysis to levo-tartaric acid (LEVENE and KREIDER) 591
Porphyrin: Excretion, feces (DOBRINER) 115
Potassium: Blood serum, microdetermination, photoelectric (HOFFMAN) 57
Protein(s): Brain, amino acids, age effect (BLOCK) 467
Egg white, separation and characterization (YOUNG) 1
Neuro-, chemistry (BLOCK) 467
Osmotic pressure, molecular weight, and stability (BURK) 63
Toxic, diphtheria bacillus filtrates (PAPPENHEIMER) 543
Pyocyanine: Cerebral cortex metabolism, effect (YOUNG) 659

R

Reaction velocity: Biochemical reactions (BODANSKY) 555

S

Scurvy: Kidney respiration (STOTZ, HARRER, SCHULTZE, and KING) 129
Liver respiration (STOTZ, HARRER, SCHULTZE, and KING) 129
Sodium: Bone (HARRISON) 457
Calcified material (HARRISON) 457
Stearic acid: Palmitic acid, conversion, deuterium as indicator (SCHOENHEIMER and RITTENBERG) 155
Sterol: -Related compounds, absorption spectra (HOGNESS, SIDWELL, and ZSCHEILE) 239
Substitution reaction: Walden inversion and, mechanism (LEVENE, ROTHEN, and KUNA) 777
Sugar: Blood plasma, heparinized and oxalated (NEUWIRTH) 463
Sulfur: Methionine, determination, Benedict-Denis method (RUTENBER and ANDREWS) 203
Suprarenal: *See* Adrenal

T

Tartaric acid: Levo-, polygalacturonide methyl ester oxidation and hydrolysis (LEVENE and KREIDER) 591
Thiocyanate: Tissues, determination (BRODIE and FRIEDMAN) 511
Thiol compounds: Determination (SHINOHARA) 743
Thiourea: Cysteine and corresponding disulfides, relations (TOENNIES) 297
Thoracic duct: Lymph, lipids (REISER) 625
Tissue: Respiration, normal and scorbutic animals (STOTZ, HARRER, SCHULTZE, and KING) 129
Tungstate: Blood uric acid determination (NEWTON) 315
Tyrosine: Dopa formation from, ultraviolet radiation (ARNOW) 151

U

Ultrafiltration: Anaerobic (LAVIETES) 267
Urea: Excretion, acidosis (ALVING and GORDON) 103
Mammary gland, production (GRAHAM, HOUCHIN, and TURNER) 29
Thio-, cysteine, and corresponding disulfides, relations (TOENNIES) 297
Uric acid: Blood, determination (NEWTON) 315
Urine: Albuminous, chloride analysis, errors (SENDROY) 441
Estrin determination, photoelectric colorimeter (VENNING, EVELYN, HARKNESS, and BROWNE) 225

V

Veratrine: Alkaloids (JACOBS and CRAIG) 447

Vitamin: Antihemorrhagic (ALMQUIST) 635

W

Walden inversion: Substitution reaction and, mechanism (LEVENE, ROTHEN, and KUNA) 777

X

Xylulose: *d*-, monoacetone, structure (LEVENE and TIPSON) 607

Y

Yeast: Adenylic acid, acridine salts (TIPSON) 621